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10 633 655 2 A

Indicate quantity of a single type of artifact received but not scanned. Create individual artifact folder/box and artifact number for each Artifact Type.

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CD(s) containing:

computer program listing

Doc Code: Computer

pages of specification

and/or sequence listing

and/or table

Doc Code: Artifact

content unspecified or combined

Doc Code: Artifact

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Artifact Type Code: P

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Artifact Type Code: S

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Artifact Type Code: U

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Stapled Set(s) Color Documents or B/W Photographs

Doc Code: Artifact Artifact Type Code: C

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Microfilm(s)

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Video tape(s)

Doc Code: Artifact Artifact Type Code: V

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Doc Code: Artifact Artifact Type Code X

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Other, description:

Patent 5,105,409
Doc Code: Artifact Artifact Type Code: Z

*The
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The Commissioner of Patents
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*Has received an application for a patent
for a new and useful invention. The title
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closed. The requirements of law have
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Therefore, this

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*Grants to the person or persons having
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as provided by law.*

Harry F. Manbeck, Jr.

Commissioner of Patents and Trademarks

Priscilla A. Fuller

Attest



US005105409A

United States Patent [19]

Kaku et al.

[11] Patent Number: 5,105,409
 [45] Date of Patent: Apr. 14, 1992

[54] METHOD AND APPARATUS FOR OPTICAL RECORDING AND REPRODUCTION WITH TRACKING SERVO REDUCING TRACK OFFSET

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[21] Appl. No.: 230,971

[22] Filed: Aug. 11, 1988

[30] Foreign Application Priority Data

Aug. 19, 1987 [JP] Japan 62-204007

[51] Int. Cl.⁵ G11B 7/095

[52] U.S. Cl. 369/44.31; 369/44.33;
369/44.35; 369/44.42

[58] Field of Search 369/44.27, 44.29, 44.31-44.36,
369/44.39, 44.42, 105, 106

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[57]

ABSTRACT

Disclosed is an optical recording and reproducing apparatus comprising a light source directing a light spot toward a recording medium, a detection system detecting light reflected from the recording medium to derive an electrical signal from the reflected light, an information processing circuit modulating the intensity of the light spot according to writing pulses to record information on the recording medium and using the electrical signal to reproduce information from the recording medium, and a tracking servo circuit carrying out tracking servo operation on the basis of the electrical signal and including an extracting circuit connected to a source of extracting pulses having a pulse width at least equal to the writing pulse width so that writing pulse parts contained in the electrical signal are extracted during recording information, whereby a track offset occurring during information recording can be minimized, and the stability of the tracking servo system can be improved.

11 Claims, 4 Drawing Sheets

